

- Abdallah Z, Stefszky M, Ulvila V, Silberhorn C, Vainio M. **Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator**. In 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8750403>
- Acar E, Peltonen S, Ruotsalainen U. **Adaptive multiresolution method for MAP reconstruction in electron tomography**. Ultramicroscopy. 2016 Nov 1;170:24-34. <https://doi.org/10.1016/j.ultramic.2016.08.002>
- Ahishali M, Kiranyaz S, Ince T, Gabbouj M. **Multifrequency Pulsar Image Classification Using Dual-Band 1D Convolutional Neural Networks**. In 2020 Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2020 - Proceedings. IEEE. 2020. p. 73-76 <https://doi.org/10.1109/M2GARSS47143.2020.9105312>
- Ahmed S, Sydänheimo L, Ukkonen L, Björninen T. **Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects**. In 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135977>
- Ali I, Suominen O, Gotchev A, Morales ER. **Methods for simultaneous robot-world-hand-eye calibration: A comparative study**. Sensors (Switzerland). 2019 Jun 2;19(12). 2837. <https://doi.org/10.3390/s19122837>
- Antink CH, Pirhonen M, Väättäjä H, Somppi S, Tornqvist H, Cardo A et al. **Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs**. IEEE Sensors Journal. 2019 Aug 15;19(16):7072-7081. <https://doi.org/10.1109/JSEN.2019.2912002>
- Asp A, Hentilä T, Valkama M, Pikkuvirta J, Hujanen A, Huhtinen I. **Impact of Different Concrete Types on Radio Propagation: Fundamentals and Practical RF Measurements**. In Rodrigues JJPC, Solic P, Perkovic T, Vukojevic K, Rodrigues JJPC, Patrono L, Nizetic S, editors, 2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019. IEEE. 2019 <https://doi.org/10.23919/SpliTech.2019.8783022>
- Assanto G, Peccianti M, Alberucci A, Piccardi A. **Routing light with nematicons: Light localization and steering in liquid crystals**. In Optics InfoBase Conference Papers. Optical Society of America. 2009. p. 2281-2282 <https://doi.org/10.1364/IQEC.2009.ITuG1>
- Auer S, Koho T, Uusi-Kerttula H, Vesikari T, Blazevic V, Hytönen VP. **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor**. Sensors and Actuators B: Chemical. 2015 Dec 31;221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>
- Baby D, Virtanen T, Gemmeke JF, Van hamme H. **Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition**. Ieee-Acm transactions on audio speech and language processing. 2015 Nov 1;23(11):1788-1799. <https://doi.org/10.1109/TASLP.2015.2450491>
- Barker T, Virtanen T. **Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms**. Ieee-Acm transactions on audio speech and language processing. 2016 Dec 1;24(12):2377-2389. <https://doi.org/10.1109/TASLP.2016.2602546>
- Berger PR, Li M, Mattei RM, Niang MA, Talisa N, Tripepi M et al. **Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects**. In 2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019. IEEE. 2019. p. 160-162 <https://doi.org/10.1109/EDTM.2019.8731322>
- Bezzateev S, Voloshina N, Zhidanov K, Ometov A. **Secure environmental monitoring for industrial internet of things: From framework to live implementation**. In Lohan E-S, Rugamer A, Nurmi J, Koch W, Heuberger A, editors, 2019 International Conference on Localization and GNSS, ICL-GNSS 2019. IEEE. 2019 <https://doi.org/10.1109/ICL-GNSS.2019.8752764>
- Borges LR, Azzari L, Bakic PR, Maidment ADA, Vieira MAC, Foi A. **Restoration of low-dose digital breast tomosynthesis**. Measurement Science and Technology. 2018 Apr 19;29(6). 064003. <https://doi.org/10.1088/1361-6501/aab2f6>

Caglayan H, Engheta N. **Theory of near-IR metatronic nanocircuits using transparent conducting oxides (TCO)**. In *Frontiers in Optics 2011*. Optical Society of America. 2011 <https://doi.org/10.1364/FIO.2011.FTuG2>

Caglayan H, Bulu I, Loncar M, Ozbay E. **Observation of defect formation in metamaterials**. In *Plasmonics and Metamaterials 2008*. Optical Society of America. 2008. MMC7 [https://doi.org/10.1364/META\\_PLAS.2008.MMC7](https://doi.org/10.1364/META_PLAS.2008.MMC7)

Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *CLEO: Applications and Technology*. 2011 [https://doi.org/10.1364/CLEO\\_AT.2011.JTuI67](https://doi.org/10.1364/CLEO_AT.2011.JTuI67)

Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *CLEO: Science and Innovations 2011*. 2011 [https://doi.org/10.1364/CLEO\\_AT.2011.JTuI67](https://doi.org/10.1364/CLEO_AT.2011.JTuI67)

Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *Quantum Electronics and Laser Science Conference, QELS 2011*. 2011 [https://doi.org/10.1364/CLEO\\_AT.2011.JTuI67](https://doi.org/10.1364/CLEO_AT.2011.JTuI67)

Carlie N, Anheier NC, Qiao HA, Bernacki B, Phillips MC, Petit L et al. **Measurement of the refractive index dispersion of As<sub>2</sub>Se<sub>3</sub> bulk glass and thin films prior to and after laser irradiation and annealing using prism coupling in the near- and mid-infrared spectral range**. *Review of Scientific Instruments*. 2011 May;82(5). 053103. <https://doi.org/10.1063/1.3587616>

Chen X, He H, Ukkonen L, Virkki J, Lu Y, Lam H. **Fabrication and reliability evaluation of passive UHF RFID T-shirts**. In *2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings*. IEEE. 2018. p. 1-4 <https://doi.org/10.1109/IWAT.2018.8379146>

Chen X, He H, Gou M, Yang Y, Sydänheimo L, Ukkonen L et al. **Passive Moisture Sensor Based on Conductive and Water-Soluble Yarns**. *IEEE Sensors Journal*. 2020 Sep 15;20(18):10989-10995. <https://doi.org/10.1109/JSEN.2020.2994449>

Cook BS, Vyas R, Kim S, Thai T, Le T, Traille A et al. **RFID-based sensors for zero-power autonomous wireless sensor networks**. *IEEE Sensors Journal*. 2014;14(8):2419-2431. 6701187. <https://doi.org/10.1109/JSEN.2013.2297436>

Dong G, Shen Y, He H, Virkki J, Hu S. **Chipless graphene tag and dual-CP reader for Internet of Things**. In *2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017*. IEEE. 2017

Dos Santos RS, Taylor J, Davies M, Mavrogianni A, Milner J. **The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data**. In *2017 Joint Urban Remote Sensing Event, JURSE 2017*. Institute of Electrical and Electronics Engineers Inc. 2017. 7924613. (2017 Joint Urban Remote Sensing Event, JURSE 2017). <https://doi.org/10.1109/JURSE.2017.7924613>

Drgas S, Virtanen T, Lücke J, Hurmalainen A. **Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning**. *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2017 Aug 1;25(8):1644-1656. <https://doi.org/10.1109/TASLP.2017.2709909>

Eyraud C, Sorsa LI, Herique A, Geffrin JM, Pursiainen S, Kofman W. **Towards Asteroid Tomography: Modellings and Measurements Using an Analogue Model**. In *14th European Conference on Antennas and Propagation, EuCAP 2020*. IEEE. 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9136060>

Farooq A, Evreinov G, Raisamo R, Takahata D. **Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay**. In *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2015. 7370186 <https://doi.org/10.1109/ICSENS.2015.7370186>

Gao H, Tao J, Dehmer M, Emmert-Streib F, Sun Q, Chen Z et al. **In-flight wind field identification and prediction of parafoil systems**. Applied Sciences (Switzerland). 2020;10(6). 1958. <https://doi.org/10.3390/app10061958>

Giannoulis G, Korpiljärvi VM, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D et al. **Dilute nitride SOAs for high-speed data processing in variable temperature conditions**. In Optical Fiber Communication Conference, OFC 2015. OSA - The Optical Society. 2015

Goncalves R, Pinho P, Carvalho NB, Tentzeris MM. **Humidity passive sensors based on UHF RFID using cork dielectric slabs**. In 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc. 2015. 7228346

Gonçalves R, Rima S, Magueta R, Pinho P, Collado A, Georgiadis A et al. **RFID-Based Wireless Passive Sensors Utilizing Cork Materials**. IEEE Sensors Journal. 2015 Dec 1;15(12):7242-7251. 7222363. <https://doi.org/10.1109/JSEN.2015.2472980>

Gumenyuk R, Okhotnikov OG. **Polarization control of the bound state of a vector soliton**. Laser Physics Letters. 2013 May;10(5):1-3. 055111. <https://doi.org/10.1088/1612-2011/10/5/055111>

Habib M, Ozbay E, Caglayan H. **Tuning plasmon induced reflectance with hybrid metasurfaces**. Photonics. 2019;6(1). 29. <https://doi.org/10.3390/photonics6010029>

He H, Chen X, Raivio L, Huttunen H, Virkki J. **Passive RFID-based Textile Touchpad**. In 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. 9135201 <https://doi.org/10.23919/EuCAP48036.2020.9135201>

He H, Chen X, Mehmood A, Raivio L, Huttunen H, Raunonen P et al. **ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition**. Sensors (Basel, Switzerland). 2020 Aug 28;20(17). 4878. <https://doi.org/10.3390/s20174878>

Henno J, Jaakkola H, Mäkelä J. **Developing curiosity and multimedia skills with programming experiments**. In 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE. 2017. p. 694-699 <https://doi.org/10.23919/MIPRO.2017.7973512>

Iliopoulos K, Czaplicki R, Ouazzani HE, Balandier J-Y, Chas M, Goeb S et al. **Third order nonlinear optical response of TTF-based molecular corners**. Nonlinear Optics, Quantum Optics. 2012;43(1-4):205-212.

Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. **Multimode waveguides in nematic liquid crystals**. In Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011. 2011. p. 1912-1913

Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar Y. **Spatial solitons carrying phase singularities in nematic liquid crystals**. In Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011. 2011. p. 444-445

Jaakkola H, Henno J, Mäkelä J, Thalheim B. **Today is the future of yesterday; What is the future of today?** In 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE. 2017. p. 635-643 <https://doi.org/10.23919/MIPRO.2017.7973502>

Jaakkola H, Henno J, Thalheim B, Mäkelä J. **The educators' telescope to the future of technology**. In 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE. 2017. p. 660-665 <https://doi.org/10.23919/MIPRO.2017.7973506>

Jeyhani V, Mahdiani S, Viik J, Oksala N, Vehkaoja A. **A novel technique for analysis of postural information with wearable devices**. In 2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018. IEEE. 2018. p. 30-33 <https://doi.org/10.1109/BSN.2018.8329651>

Jylhä J, Ruotsalainen M, Väilä M, Perälä H. **Incorporating Aircraft Kinematics and Radar Cross Section into the Performance Prediction of Air Surveillance.** In FUSION 2019 - 22nd International Conference on Information Fusion. IEEE. 2019

Kahle H, Phung H-M, Penttinen J-P, Rajala P, Tukiainen A, Ranta S et al. **Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region.** In 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8749958>

Kekonen A, Bergelin M, Johansson M, Kumar Joon N, Bobacka J, Viik J. **Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H<sub>2</sub>O<sub>2</sub> Using Low-Intensity Direct Current.** Sensors. 2019 May 31;19(11). <https://doi.org/10.3390/s19112505>

Kerst T, Malmbeck R, Ial Banik NL, Toivonen J. **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution.** Sensors (Switzerland). 2019 Apr 1;19(7). 1602. <https://doi.org/10.3390/s19071602>

Kettunen L, Kovanen T. **Electromagnetism and cross-disciplinary problems.** In 2016 URSI International Symposium on Electromagnetic Theory, EMTS 2016. IEEE. 2016. p. 500-501 <https://doi.org/10.1109/URSI-EMTS.2016.7571436>

Khan Z, Rizwan M, Rusanen R, Ukkonen L, Virkki J. **Strain Reliability of Embroidered Passive UHF RFID Tags on 3D-printed Substrates.** In 13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE. 2019

Khan MA, Vehmas R, Visa A. **Automatic detection of water inside concrete slabs using ground penetrating radar.** In 2019 IEEE Radar Conference, RadarConf 2019. IEEE. 2019 <https://doi.org/10.1109/RADAR.2019.8835797>

Khan Z, He H, Chen X, Ukkonen L, Virkki J. **Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study.** In 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. 9135632. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135632>

Kim S, Kawahara Y, Georgiadis A, Collado A, Tentzeris MM. **Low-cost inkjet-printed fully passive RFID tags for calibration-free capacitive/haptic sensor applications.** IEEE Sensors Journal. 2015 Jun 1;15(6):3135-3145. 6945328. <https://doi.org/10.1109/JSEN.2014.2366915>

Koivikko A, Raei ES, Mosallaei M, Mäntysalo M, Sariola V. **Screen-printed curvature sensors for soft robots.** IEEE Sensors Journal. 2018;18(1):223-230. <https://doi.org/10.1109/JSEN.2017.2765745>

Koivumäki J, Mattila J. **Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps.** Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 2017 Oct 1;139(10). 101008. <https://doi.org/10.1115/1.4036537>

Kokkonen J, Lehtomäki J, Petrov V, Moltchanov D, Juntti M. **Frequency domain penetration loss in the terahertz band.** In 2016 Global Symposium on Millimeter Waves (GSMM) & ESA Workshop on Millimetre-Wave Technology and Applications. IEEE. 2016 <https://doi.org/10.1109/GSMM.2016.7500309>

Kooser K, Kivimäki A, Turunen P, Pärna R, Reisberg L, Kirm M et al. **Gas-phase endstation of electron, ion and coincidence spectroscopies for diluted samples at the FinEstBeAMS beamline of the MAX IV 1.5 GeV storage ring.** JOURNAL OF SYNCHROTRON RADIATION. 2020 Jul 1;27:1080-1091. <https://doi.org/10.1107/S1600577520007146>

Kordelin K, Virkki J, Kordelin J, Kuusman J, Mattila J, Johansson M et al. **Optimization of RFID-Based Tunnel Access Monitoring System Antenna Reading Areas.** In 13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE. 2019. 8739592

- Korobko DA, Okhotnikov OG, Zolotovskii IO. **Amplifier similariton laser with extra-broad bandwidth output pulse**. *Laser Physics Letters*. 2016 Mar 1;13(3). 035106. <https://doi.org/10.1088/1612-2011/13/3/035106>
- Kovalchukov R, Moltchanov D, Begishev V, Samuylov A, Andreev S, Koucheryavy Y et al. **Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth**. In 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE. 2019 <https://doi.org/10.1109/GLOCOM.2018.8647608>
- Kuang Y, Ma S, Ukkonen L, Virkki J, Björninen T. **Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems**. In 2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018. IEEE. 2019 <https://doi.org/10.23919/ACCESS.2018.8669314>
- Le D, Ukkonen L, Björninen T. **Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags**. In 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135984>
- Le Xuan L, Slablab A, Zhou C, Chauvat D, De Wilde Y, Perruchas S et al. **Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure**. In Optics InfoBase Conference Papers. Optical Society of America. 2009
- Li S, Bariah L, Muhaidat S, Sofotasios P, Liang J, Wang A. **Error analysis of NOMA-based user cooperation with SWIPT**. In Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019. IEEE. 2019. p. 507-513 <https://doi.org/10.1109/DCOSS.2019.00098>
- Linna P, Mäkinen T, Yrjönkoski K. **Open data based value networks: Finnish examples of public events and agriculture**. In 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE. 2017. p. 1448-1453 <https://doi.org/10.23919/MIPRO.2017.7973649>
- Ma S, Ukkonen L, Sydänheimo L, Björninen T. **Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development**. In 2018 International Applied Computational Electromagnetics Society (ACES) Symposium: 29 July-1 Aug. 2018, China. IEEE. 2019 <https://doi.org/10.23919/ACCESS.2018.8669363>
- Mahmoodpour M, Lobov A, Lanz M, Mäkelä P, Rundas N. **Role-based visualization of industrial IoT-based systems**. In 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. 2018. 8449183 <https://doi.org/10.1109/MESA.2018.8449183>
- Mäkinen J, Piché R, Ellman A. **Fluid Transmission Line Modeling Using a Variational Method**. *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*. 2000 Mar;122(1):153-162.
- Mäkinen P, Mononen T, Mattila J. **Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion**. In 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. 2018. 8449188 <https://doi.org/10.1109/MESA.2018.8449188>
- Makkonen J, Marsh LA, Vihonen J, Järvi A, Armitage DW, Visa A et al. **Improving reliability for classification of metallic objects using a WTMD portal**. *Measurement Science and Technology*. 2015 Aug 26;26(10). 105103. <https://doi.org/10.1088/0957-0233/26/10/105103>
- Mariotti C, Su W, Cook BS, Roselli L, Tentzeris MM. **Development of Low Cost, Wireless, Inkjet Printed Microfluidic RF Systems and Devices for Sensing or Tunable Electronics**. *IEEE Sensors Journal*. 2015 Jun 1;15(6):3156-3163. 6966729. <https://doi.org/10.1109/JSEN.2014.2374874>
- Martinez R, Kimionis J, Georgiadis A, Collado A, Tentzeris M, Goussetis G et al. **Circularly polarized shorted ring slot rectenna with a mesh design for optimized inkjet printing on paper substrate**. In 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc. 2015. 7228814

Mathlouthi M, Valkonen A, Rzaigui M, Smirani W. **Structural characterization, spectroscopic, thermal, AC conductivity and dielectric properties and antimicrobial studies of  $(C_8H_{12}N)_2[SnCl_6]$** . PHASE TRANSITIONS. 2017;90(4):399-414. <https://doi.org/10.1080/01411594.2016.1212194>

Mehrang S, Pietilä J, Korhonen I. **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band**. Sensors. 2018 Feb 22;18(2). 613. <https://doi.org/10.3390/s18020613>

Mesaros A, Heittola T, Virtanen T. **Metrics for polyphonic sound event detection**. Applied Sciences. 2016;6(6). 162. <https://doi.org/10.3390/app6060162>

Mesaros A, Heittola T, Benetos E, Foster P, Lagrange M, Virtanen T et al. **Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge**. IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 Feb;26(2):379-393. <https://doi.org/10.1109/TASLP.2017.2778423>

Motlagh HDK, Lotfi F, Taghirad HD, Germi SB. **Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment**. In ICRoM 2019 - 7th International Conference on Robotics and Mechatronics. IEEE. 2019. p. 120-124 <https://doi.org/10.1109/ICRoM48714.2019.9071826>

Naumenko A, Krivenko S, Lukin V, Egiazarian K. **Texture region detection by trained neural network**. In 9th International Kharkiv Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves, MSMW 2016. IEEE. 2016 <https://doi.org/10.1109/MSMW.2016.7538174>

Nikunen J, Diment A, Virtanen T. **Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking**. IEEE/ACM Transactions on Audio Speech and Language Processing. 2018;26(2):281-295. <https://doi.org/10.1109/TASLP.2017.2774925>

Nilsson J, Sahu JK, Jeong Y, Filippov VN, Soh DBS, Codemard CA et al. **High power fiber lasers**. In Optics InfoBase Conference Papers. Optical Society of America. 2006

Ometov A, Solomitskii D, Olsson T, Bezzateev S, Shchesniak A, Andreev S et al. **Secure and connected wearable intelligence for content delivery at a mass event: A case study**. Journal of Sensor and Actuator Networks. 2017 Jun 1;6(2). 5. <https://doi.org/10.3390/jsan6020005>

Ometov A, Bezzateev S, Davydov V, Shchesniak A, Masek P, Lohan ES et al. **Positioning information privacy in intelligent transportation systems: An overview and future perspective**. Sensors. 2019 Apr 1;19(7). 1603. <https://doi.org/10.3390/s19071603>

Ometov A, Bezzateev S, Voloshina N, Masek P, Komarov M. **Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario**. Sensors (Switzerland). 2019 Dec 2;19(24). 5548. <https://doi.org/10.3390/s19245548>

Ozbay E, Bulu I, Aydin K, Caglayan H, Alici KB, Guven K. **Highly directive radiation and negative refraction using photonic crystals**. Laser Physics. 2005 Feb;15(2):217-224.

Pajukoski H, Näkki J, Thieme S, Tuominen J, Nowotny S, Vuoristo P. **High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods**. Journal of Laser Applications. 2016;28(1). 012011. <https://doi.org/10.2351/1.4936988>

Peccianti M, Pasquazi A, Assanto G, Morandotti R. **Third harmonic generation enhancement in nematic liquid crystals via nonlocal solitons propagation**. In CLEO: Science and Innovations, CLEO\_SI 2011. 2011

Petrov V, Eckhardt JM, Moltchanov D, Koucheryavy Y, Kurner T. **Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications**. In 14th European Conference on Antennas and Propagation, EuCAP 2020. Institute of Electrical and Electronics Engineers Inc. 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135389>

Piccardi A, Alberucci A, Kravets N, Assanto G, Buchnev O, Kaczmarek M. **Light beam hysteresis in liquid crystals**. In 2014 Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014. IEEE COMPUTER SOCIETY PRESS. 2014. 6843888 <https://doi.org/10.1109/Fotonica.2014.6843888>

Piccardi A, Alberucci A, Assanto G, Kaczmarek M. **Spatial solitons in a self-focusing medium with tunable nonlinearity**. In Optics InfoBase Conference Papers. 2011 <https://doi.org/10.1364/NLO.2011.NWE7>

Piccardi A, Alberucci A, Assanto G, Tabiryan N. **Dark solitons in nematic liquid crystals**. In Optics InfoBase Conference Papers. 2011 <https://doi.org/10.1364/NLO.2011.NWE4>

Piccardi A, Alberucci A, Bortolozzo U, Residori S, Assanto G. **Nematicon routing in liquid crystal light valve**. In Optics InfoBase Conference Papers. 2010

Piccardi A, Alberucci A, Assanto G. **Soliton self-deflection via power-dependent walk-off**. In Optics InfoBase Conference Papers. 2010 <https://doi.org/10.1364/NP.2010.NMD1>

Piche R. **Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model**. In 2019 18th European Control Conference, ECC 2019. IEEE. 2019. p. 1861-1865 <https://doi.org/10.23919/ECC.2019.8795960>

Pihlajasalo J, Leppäkoski H, Kuismanen S, Ali-Löyty S, Piche R. **Methods for long-term GNSS clock offset prediction**. In Nurmi J, Lohan E-S, Rugamer A, Heuberger A, Koch W, editors, 2019 International Conference on Localization and GNSS, ICL-GNSS 2019: 4-6 June 2019, Nuremberg, Germany. IEEE. 2019. (International Conference on Localization and GNSS). <https://doi.org/10.1109/ICL-GNSS.2019.8752725>

Pirhonen M, Peltokangas M, Vehkaoja A. **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra**. Sensors. 2018 Jun 1;18(6). 1693. <https://doi.org/10.3390/s18061693>

Pournoori N, Ukkonen L, Sydänheimo L, Björninen T. **Charge Storage Level Sensor RFID Tag: Impedance Matching and Experimental Characterisation**. In 13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE. 2019

Pyrhönen V-P, Vilkkö MK. **Composite nonlinear feedback control of a JIB trolley of a tower crane behaviors**. In 2019 18th European Control Conference, ECC 2019. IEEE. 2019. p. 1124-1129. 8796229 <https://doi.org/10.23919/ECC.2019.8796229>

Rajala S, Paajanen M, Lekkala J. **Measurement of sensitivity distribution map of a ferroelectret polymer film**. IEEE Sensors Journal. 2016 Sep 27;16(23):8517-8522. <https://doi.org/10.1109/JSEN.2016.2613876>

Rajala S, Mattila R, Kaartinen I, Lekkala J. **Designing, Manufacturing and Testing of a Piezoelectric Polymer Film In-Sole Sensor for Plantar Pressure Distribution Measurements**. IEEE Sensors Journal. 2017 Oct 15;17(20):6798-6805. <https://doi.org/10.1109/JSEN.2017.2750241>

Rajan DK, Verho J, Kreutzer J, Valimäki H, Ihalainen H, Lekkala J et al. **Monitoring pH, temperature and humidity in long-term stem cell culture in CO<sub>2</sub> incubator**. In 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA). IEEE. 2017. p. 470-474 <https://doi.org/10.1109/MeMeA.2017.7985922>

Rastorgueva-Foi E, Costa M, Koivisto M, Leppänen K, Valkama M. **User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering**. In 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE. 2018. p. 1150-1156. 8455289 <https://doi.org/10.23919/ICIF.2018.8455289>

Richard G, Virtanen T, Bello JP, Ono N, Glotin H. **Introduction to the Special Section on Sound Scene and Event Analysis**. IEEE/ACM Transactions on Audio Speech and Language Processing. 2017 Jun 1;25(6):1169-1171. <https://doi.org/10.1109/TASLP.2017.2699334>

Rinne J, Keskinen J, Berger PR, Lupo D, Valkama M. **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. Sensors (Basel, Switzerland). 2018 Nov 16;18(11). <https://doi.org/10.3390/s18113992>

Rubel O, Lukin V, Egiazarian K. **On prediction of DCT-based denoising efficiency under spatially correlated noise conditions**. In 2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET). IEEE. 2016. p. 750-754 <https://doi.org/10.1109/TCSET.2016.7452171>

Ruotsalainen M, Perala H, Vaila M, Jylha J, Kauhanen M. **A Framework for Using Radar Measurements of Unknown Targets in Hierarchical Classification**. In FUSION 2019 - 22nd International Conference on Information Fusion. IEEE. 2019. 9011387

Saad-Bin-Alam M, Reshef O, Huttunen MJ, Carlow G, Sullivan B, Menard JM et al. **High-Q resonance train in a plasmonic metasurface**. In 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8750206>

Sadiq I, Mikkonen T, Vainio M, Toivonen J, Foltynowicz A. **Optical Frequency Comb Photoacoustic Spectroscopy**. In 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8749688>

Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Vilkkio M et al. **Passive resonance sensor based method for monitoring particle suspensions**. Sensors and Actuators B: Chemical. 2015 Jun 8;219:324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

Salpavaara T, Hänninen A, Antniemi A, Lekkala J, Kellomäki M. **Non-destructive and wireless monitoring of biodegradable polymers**. Sensors and Actuators B: Chemical. 2017;251:1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>

Sanginés R, Contreras V, Sobral H, Robledo-Martinez A. **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy**. Spectrochimica Acta Part B: Atomic Spectroscopy. 2015 Jul 6;110:139-145. 4935. <https://doi.org/10.1016/j.sab.2015.06.012>

Selvan NT, Eshwaran SB, Das A, Stöckelhuber KW, Wießner S, Pötschke P et al. **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications**. Sensors and Actuators, A: Physical. 2016 Mar 1;239:102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

Semkin V, Ponomarenko-Timofeev A, Karttunen A, Galinina O, Andreev S, Koucheryavy Y. **Path Loss Characterization for Intra-Vehicle Wearable Deployments at 60 GHz**. In 13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE. 2019

Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. **Spectral object recognition in hyperspectral holography with complex-domain denoising**. Sensors (Switzerland). 2019 Nov 26;19(23). 5188. <https://doi.org/10.3390/s19235188>

Shigeta R, Sasaki T, Quan DM, Kawahara Y, Vyas RJ, Tentzeris MM et al. **Ambient rf energy harvesting sensor device with capacitor-leakage-aware duty cycle control**. IEEE Sensors Journal. 2013;13(8):2973-2983. 6521342. <https://doi.org/10.1109/JSEN.2013.2264931>



Sigmund P, Robinson MT, Baskes MI, Hautala M, Cui FZ, Eckstein W et al. **Round Robin computer simulation of ejection probability in sputtering**. Nuclear Inst. and Methods in Physics Research, B. 1989 Feb 1;36(2):110-123. [https://doi.org/10.1016/0168-583X\(89\)90573-9](https://doi.org/10.1016/0168-583X(89)90573-9)

Solin A, Cortes S, Rahtu E, Kannala J. **Inertial Odometry on Handheld Smartphones**. In 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE. 2018. p. 1361-1368. 8455482 <https://doi.org/10.23919/ICIF.2018.8455482>

Sorvajarvi T, Rossi J, Toivonen J. **Detection of KC1 and KOH using collinear photofragmentation and atomic absorption spectroscopy**. In The European Conference on Lasers and Electro-Optics, CLEO\_Europe 2013. 2013

Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. **Inkjet-printed dual microfluidic-based sensor integrated system**. In 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc. 2015. 7370300 <https://doi.org/10.1109/ICSENS.2015.7370300>

Su W, Cook BS, Tentzeris MM. **Low-cost microfluidics-enabled tunable loop antenna using inkjet-printing technologies**. In 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc. 2015. 7228990

Tan C, Ceballos G, Kasabov N, Subramaniam NP. **Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network**. Sensors (Switzerland). 2020 Sep 17;20(18). 5328. <https://doi.org/10.3390/s20185328>

Teke B, Lanz M, Kämäräinen J-K, Hietanen A. **Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect @ v2**. In 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. 2018. 8449156 <https://doi.org/10.1109/MESA.2018.8449156>

Tervo O, Levanen T, Pajukoski K, Hulkkonen J, Wainio P, Valkama M. **5G new radio evolution towards sub-THz communications**. In 2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020. IEEE. 2020 <https://doi.org/10.1109/6GSUMMIT49458.2020.9083807>

Thai TT, Mehdi JM, Chebila F, Aubert H, Pons P, Dejean GR et al. **Design and development of a novel passive wireless ultrasensitive RF temperature transducer for remote sensing**. IEEE Sensors Journal. 2012;12(9):2756-2766. 6208808. <https://doi.org/10.1109/JSEN.2012.2201463>

Tomkowski R, Sorsa A, Santa-Aho S, Lundin P, Vippola M. **Statistical evaluation of barkhausen noise testing (BNT) for ground samples**. Sensors (Switzerland). 2019 Nov 1;19(21). 4716. <https://doi.org/10.3390/s19214716>

Trikshev AI, Kurkov AS, Tsvetkov VB, Filatova SA, Kertulla J, Filippov V et al. **160W single-frequency laser based on active tapered double-clad fiber amplifier**. In Optics InfoBase Conference Papers. 2013

Tzamkiozis T, Ntziachristos L, Amanatidis S, Niemelä V, Ukkonen A, Samaras Z. **Development of a constant dilution sampling system for particulate and gaseous pollutant measurements**. Measurement Science and Technology. 2013 Aug;24(8). 085801. <https://doi.org/10.1088/0957-0233/24/8/085801>

Uddin R, Nur-E-Habiba N, Rena G, Hwu ET, Boisen A. **New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform**. ACS Sensors. 2017 Sep 22;2(9):1329-1336. <https://doi.org/10.1021/acssensors.7b00384>

Väilä M, Jylhä J, Ruotsalainen M, Perälä H. **Exploiting the Momentary Dependence of Radar Observations for Non-Cooperative Target Recognition**. In FUSION 2019 - 22nd International Conference on Information Fusion. IEEE. 2019. 9011215

Välimäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Ryyänen T, Pekkanen-Mattila M et al. **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models**. *Sensors and Actuators B: Chemical*. 2017 Oct 1;249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

Valkealahti S, Schou J, Sørensen H, Nieminen RM. **Ranges and stopping power of KeV electrons in the solid hydrogens**. *Nuclear Inst. and Methods in Physics Research, B*. 1988 Jan 1;34(3):321-331. [https://doi.org/10.1016/0168-583X\(88\)90052-3](https://doi.org/10.1016/0168-583X(88)90052-3)

Valkealahti S, Nieminen RM. **Molecular dynamics simulation of the damage production in Al (110) surface with slow argon ions**. *Nuclear Inst. and Methods in Physics Research, B*. 1986 Jan 1;18(1-6):365-369. [https://doi.org/10.1016/S0168-583X\(86\)80060-X](https://doi.org/10.1016/S0168-583X(86)80060-X)

Veselov A, Efimov A, Chamorovskiy A, Okhotnikov O, Kosolapov A, Levchenko A et al. **Self-assembled monolayers (SAMs) of porphyrin deposited inside solid-core photonic crystal fibre (SCPCF)**. In *Access Networks and In-house Communications, ANIC 2011*. 2011

Vihonen J, Mattila J, Visa A. **Joint-Space Kinematic Model for Gravity-Referenced Joint Angle Estimation of Heavy-Duty Manipulators**. *IEEE Transactions on Instrumentation and Measurement*. 2017;66(12):3280-3288. <https://doi.org/10.1109/TIM.2017.2749918>

Vikholm-Lundin I, Auer S, Paakkunainen M, Määttä JAE, Munter T, Leppiniemi J et al. **Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold**. *Sensors and Actuators B: Chemical*. 2012 Aug;171-172:440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Vikholm-Lundin I, Auer S, Hellgren AC. **Detection of 3,4-methylenedioxyamphetamine (MDMA, ecstasy) by displacement of antibodies**. *Sensors and Actuators B: Chemical*. 2011 Aug 10;156(1):28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Viljanen J, Sun Z, Alwahabi ZT. **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions**. *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2016 Apr 1;118:29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Viljanen J, Kalmankoski K, Contreras V, Sarin JK, Sorvajärvi T, Kinnunen H et al. **Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species**. *Sensors (Basel, Switzerland)*. 2020 Jan 18;20(2). 533. <https://doi.org/10.3390/s20020533>

Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y et al. **Evaluation of dry electrodes in canine heart rate monitoring**. *Sensors*. 2018 Jun 1;18(6). 1757. <https://doi.org/10.3390/s18061757>

Vyas R, Lakafosis V, Lee H, Shaker G, Yang L, Orecchini G et al. **Inkjet printed, self powered, wireless sensors for environmental, gas, and authentication-based sensing**. *IEEE Sensors Journal*. 2011;11(12):3139-3152. 6008617. <https://doi.org/10.1109/JSEN.2011.2166996>

Wang W, Okati N, Tanash I, Riihonen T, Lohan E-S. **Location-based beamforming architecture for efficient farming applications with drones**. In Lohan E-S, Rugamer A, Nurmi J, Koch W, Heuberger A, editors, 2019 International Conference on Localization and GNSS, ICL-GNSS 2019. IEEE. 2019 <https://doi.org/10.1109/ICL-GNSS.2019.8752698>

Yi X, Wu T, Wang Y, Tentzeris MM. **Sensitivity modeling of an RFID-based strain-sensing antenna with dielectric constant change**. *IEEE Sensors Journal*. 2015 Nov 1;15(11):6147-6155. 7152827. <https://doi.org/10.1109/JSEN.2015.2453947>

Yoo SK, Cotton SL, Sofotasios PC, Muhaidat S, Badarneh OS, Karagiannidis GK. **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels**. In 2018 IEEE Global Communications Conference. IEEE. 2019. 8647778 <https://doi.org/10.1109/GLOCOM.2018.8647778>

Zakrzewski M, Vehkaoja A, Joutsen AS, Palovuori KT, Vanhala JJ. **Noncontact Respiration Monitoring during Sleep with Microwave Doppler Radar**. IEEE Sensors Journal. 2015 Oct 1;15(10):5683-5693.  
<https://doi.org/10.1109/JSEN.2015.2446616>